

INSTRUCTIONS**FORM F20a****REFINERY FUGITIVE VOC EMISSIONS**

(Sources include: valves, flanges, seals, and drains)

Department of Environmental Quality

Division of Air Quality

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DAQ ID	For Office use only.
Pt. Source ID	Provide the identification number the company associates with the process.
SCC	Enter the appropriate Source Classification Code (SCC). See <i>page 16 of the General Instructions for explanation.</i>
Source Description	<p>Choose from the following:</p> <ol style="list-style-type: none">1. Process drains - Wastewater separators w/o recovery systems and/or separator covers.2. Process drains - Wastewater separator w/ recovery systems and separator covers.3. Asphalt blowing.4. Blind charging.5. Vacuum jets.6. Cooling towers.7. Misc. sampling, sweetening, purging.8. Pipeline valves.9. Pipeline flanges.10. Pump seals.11. Mechanical pump seals.12. Dual pump seals.13. Purged seals.14. Compressor seals.15. Vessel relief valves.16. Open ended lines and sampling valves.
Process Stream Type	<p>Select the following type of streams:</p> <ol style="list-style-type: none">I. All streams.II. Gas streams.III. Light liquid and gas/liquid streams.IV. Heavy liquid streams.V. Hydrogen streams.
Number of Units	List the total number of units in operation emitting fugitive hydrocarbons (note: this is not the total checked for the year, it is the actual number of units).
Refinery Feed or Water	Specify feedstocks, products, or water.
Amount	State the thru-put of feedstocks, products, or water.
Units	Specify the thru-put units in 10 ³ bbl per year or 10 ³ gals per year.
Emission Control Code	Describe the control technology used such as traps, covers, vapor recovery, etc. (Note: this field should be left blank if leak/no leak emission factors were used).
% Control Efficiency	Give the efficiency of the control method used.
If Control Is Other, List	Describe the control equipment if other method was used.

VOC Emissions	Calculate the amount of VOC in tons per year. Provide complete calculations on a separate sheet.
Estimate Code	Provide the method code for quantifying actual emissions of each pollutant. The valid method codes are listed in Table 6, page 25 of the General Instructions. If estimate code 8 (EPA Emission Factor) is used, also include the specific AP-42 section used in the Comments field; see page 14 for a link to AP-42.
Emission Factor	Provide the emission factor used to calculate the estimated VOC emissions. This emission factor is the weighted average of the emission factor for leakers and the emission factor for nonleakers.
Units	Please provide the units of emission factor for the purpose of review, such as lb/10 ³ gal, lb/10 ³ bbl, or kg/hr/source.
Percent Leakers	Provide the percentage of leakers of those checked for the entire year.
Emission Factor for Leakers	Give the emission factor for leakers.
Units	Provide the associated emission factor unit such as lb/hr/source or kg/hr/source; the latter is preferred.
Emission factor for Nonleakers	Give the emission factor for nonleakers.
Units	Provide the associated emission factor unit.
Comment	Provide any additional information necessary for calculation of emissions.